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CS222361

103: 182776h Mixture for autoclaved lime-silica concrete.  
Vrbecky, Jan; Rihanek, Stanislav Czech. CS 222,361 (Cl. C04B15/06), 15 Aug 1985, Appl. 80/4,174, 13 Jun 1980; 2 pp. Products with physicomech. properties comparable to cement-bonded concretes were prep'd. from hydrothermally processed artificial aggregates (AA) and a flue dust-lime binder. Thus, a mixt. of 8 kg flue dust, 1.64 kg powd. lime, and 3.5 L water was pelletized, the pellets were heated 10 h at 1 MPa in a moist atm., and dried at 105° to give AA with bulk d. 880 kg/m<sup>3</sup>, vol. d. 1580 kg/m<sup>3</sup>, water sorption 47%, grain size 10–25 mm, and crushing strength 2.25 MPa (dry) and 1.69 MPa (moist). Mixing 1100 kg AA with 450 kg binder (prep'd. from a 10:4.3 flue dust-lime mixt.) and 300 L water and heating 10 h at 1 MPa as above gave test bodies which had crushing strength in conformity with the no. 170 concrete std.

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